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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/614,395	07/03/2003	Shane S. Taylor	58232/A647	5914
	7590 10/01/200 <b>RKER &amp; HALE, LLP</b>	EXAMINER		
PO BOX 7068		SCHNEIDER, CRAIG M		
PASADENA, CA 91109-7068			ART UNIT	PAPER NUMBER
			3753	
			MAIL DATE	DELIVERY MODE
			10/01/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)
	10/614,395	TAYLOR ET AL.
Office Action Summary	Examiner	Art Unit
	CRAIG M. SCHNEIDER	3753
The MAILING DATE of this communication ap Period for Reply	opears on the cover sheet with the o	correspondence address
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING ID  Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication.  If NO period for reply is specified above, the maximum statutory period.  Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION  .136(a). In no event, however, may a reply be tird  d will apply and will expire SIX (6) MONTHS from the, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. ED (35 U.S.C. § 133).
Status		
Responsive to communication(s) filed on <u>08</u> .  2a)  This action is <b>FINAL</b> . 2b)  Th  3)  Since this application is in condition for allowed closed in accordance with the practice under	is action is non-final. ance except for formal matters, pro	
Disposition of Claims		
4)  Claim(s) 66,70 and 97-103 is/are pending in the same state of the above claim(s) is/are withdress 5)  Claim(s) is/are allowed.  6)  Claim(s) 66,70 and 97-103 is/are rejected.  7)  Claim(s) is/are objected to.  8)  Claim(s) are subject to restriction and/	awn from consideration.	
Application Papers		
9) The specification is objected to by the Examir 10) The drawing(s) filed on <u>08 September 2008</u> is Applicant may not request that any objection to the Replacement drawing sheet(s) including the corre 11) The oath or declaration is objected to by the E	s/are: a)⊠ accepted or b)⊡ object e drawing(s) be held in abeyance. Section is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of:  1. Certified copies of the priority documer 2. Certified copies of the priority documer 3. Copies of the certified copies of the pri application from the International Burea * See the attached detailed Office action for a list	nts have been received. nts have been received in Applicat ority documents have been receive au (PCT Rule 17.2(a)).	ion No ed in this National Stage
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date	4)  Interview Summary Paper No(s)/Mail D 5)  Notice of Informal F 6)  Other:	ate

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#### **DETAILED ACTION**

### Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 9/8/08 has been entered.

# **Drawings**

2. The drawings were received on 9/8/08. These drawings are acceptable.

# Claim Rejections - 35 USC § 103

- 3. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 4. Claims 66, 70 are rejected as understood under 35 U.S.C. 103(a) as being unpatentable over Contreras (4,015,630) in view of Schuler (5,685,297) and in further view of Dey (3,426,790) and further in view of Hershman (2,725,072).

Contreras discloses a regulator device configured to reduce the gas pressure of a source of pressurized breathable gas in a self contained underwater breathing apparatus comprising a regulator housing (10); a gas inlet opening (11 where 16 branches off) located within a bore in the regulator housing; a gas valve comprising a housing possessing an inlet opening (area that 11 is pointing to in Figure 1) and an exit opening (area that is right before the gas inlet opening); a passageway (area after 11

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and right before the branch leading to 16) extending downstream of the inlet opening, a moveable cover member (12a) adapted to cover the inlet opening of the gas valve, the moveable cover member having a range of motion between a first position wherein the moveable cover member covers the inlet opening and a second position outside of the passageway wherein the moveable cover member is displaced from the inlet opening as seen in Figure 1, the moveable cover member being biased towards the first position (12 and 13 screws the cover into place therefore it is biased into the first position); and the gas outlet opening of the gas valve is in fluid communication with the gas inlet opening of the first stage regulator (col. 2, lines 4-21). Contreras fails to disclose a filter located within the passageway so that fluid must pass through the filter to pass through the exit opening, a retainer for removably securing the filter within the exit opening of the passageway, and the housing of the gas valve includes a portion threaded into the bore of the regulator housing and wherein the moveable cover member is adapted to automatically move from the second position to the first position when the valve is disconnected from a source of compressed gas. Schuler discloses a gas valve (the device that encloses 20 and that is threaded into housing 12) comprising a housing possessing an inlet opening (area below 20 away from 12) and an exit opening (area that the gas valve enters 12); a passageway (the passage through the gas valve) extending downstream of the inlet opening and a filter (20) located within the passageway so that fluid must pass through the filter to pass through the exit opening, and the housing of the gas valve includes a portion threaded (area that the gas valve meets 12) into the bore of the regulator housing (col. 3, lines 43-50). Schuler fails to

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disclose that a retainer for removably securing the filter within the exit opening of the passageway is used. Dey discloses a retainer (32) for removably securing the filter within the exit opening of the passageway (col. 2, lines 56-60). Hershman discloses the use of spring (41) assisted closing devices (40) to cover up a passageway (23)(col. 2, line 20 to col. 3, line 47).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to utilize a removable gas valve as disclose by Schuler with the device of Contreras, in order to easily replace the gas valve.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to utilize a removable retainer with the filter as disclosed by Dey with the filter of Contreras as modified by Schuler, in order to be able to replace the filter as needed.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to utilize the idea of a spring assisted closing device as disclosed by Hershman in place of the closing device of Contreras in view of Schuler and Dey, to have a closing device that is closed when not in use.

Regarding claim 70, the valve further comprising an attachment member (30) for coupling the moveable cover member to the valve.

Regarding claim 97, Hershman utilizes a biasing element (41) which is offset from the inlet as seen in Figure 1 and therefore is not aligned with the inlet opening.

Regarding claim 98, the Hershman biasing element would continuously bias the moveable cover member to the first position and be in continuous contact with the movable cover member.

Regarding claims 99 and 100, the biasing element comprises a spring hinge and a resilient arm as seen in Figure 2.

Regarding claim 101, the resilient arm of Hershman would be in a low stress condition with the moveable cover member being in the first position and a high stress condition with the moveable cover member being in the second position.

Regarding claims 102 and 103, the valve further comprising a screw member (15) threadably connected to the housing and attached to a hand knob (12), the screw member being distal from the moveable cover member with the moveable cover member being in and biased into the first position.

#### Response to Arguments

5. Applicant's arguments filed 9/8/08 have been fully considered but they are not persuasive. The applicant is arguing that the Hershman reference would not function as indicated. The applicant in the Remarks dated 9/8/08 on page 11, line 14 to page 12, line 2 indicate that the cover member would be biased to the closed position when the coupling element is removed. The applicant then indicates that this is not how the device of Hershman would function that the cover member in fact would not revert back to its intended closed position as stated. Hershman therefore would not be capable of performing the claim limitations of automatically moving from the second position to the first position when the valve is disconnected. The applicant is merely making an

accusation that the Hershman device does not function as disclosed and therefore would not meet the claim limitations. The examiner has indicated that the device of Hershman is biased to close a pathway and this position is further supported by the applicant's Remarks of 9/8/08 as indicated on page 11, line 14 to page 12, line 2.

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to CRAIG M. SCHNEIDER whose telephone number is (571)272-3607. The examiner can normally be reached on M-F 8:00 -4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Greg Huson can be reached on (571) 272-4887. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/C. M. S./ Examiner, Art Unit 3753 September 26, 2008 /John Rivell/ Primary Examiner, Art Unit 3753 Application/Control Number: 10/614,395

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